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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/729,998	12/09/2003	Dong-Yeon Kim	1793.1055	2804
21171 75	590 06/23/2006		EXAMINER	
STAAS & HALSEY LLP SUITE 700		ALSEY LLP	PARK, ILWOO	
	RK AVENUE, N.W.		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005		2182		

DATE MAILED: 06/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.	Applicant(s)			
		10/729,998	KIM, DONG-YEON			
	Office Action Summary	Examiner	Art Unit			
		Ilwoo Park	2182			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 29 Ma	arch 2006.				
· <u> </u>		action is non-final.				
3)□	Since this application is in condition for allowan	ce except for formal matters, pro	osecution as to the merits is			
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	Claim(s) 1 and 3-16 is/are pending in the applic	cation.				
	4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1 and 3-16</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examiner	·.				
10)[The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the I	Examiner.			
	Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate Patent Application (PTO-152)			
	r No(s)/Mail Date	6) Other:				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/29/2006 has been entered.
- 2. Claim 16 is added. Claims 1 and 3-16 are presented for examination

Claim Objections

3. Claim 16 is objected to because of the following informalities: the first 'the signal' in line 4 is not the signal from the host. Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1 and 4-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Thorland et al., US patent No. 6,457,071.

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As to claim 1, Thorland et al teach an apparatus [software and/or hardware in col. 11, lines 49-53] for indicating a connection state of an input/output cable, comprising:

an indicator [col. 9, lines 18-28] that is a communication device between an AT Attachment Packet Interface (ATAPI) drive [col. 1, lines 23-26] and a host [host computer 100 in fig. 1] interconnected via the input/output cable [connection cable 201] and that indicates [col. 9, lines 18-28] in response to a control signal whether the AT Attachment Packet Interface (ATAPI) drive is connected to or disconnected from the host via the input/output cable; and

a controller that sets a flag to check [col. 7, lines 23-32] the connection state of the input/output cable, when power is applied to the AT Attachment Packet Interface (ATAPI) drive, and outputs [col. 7, lines 33-39] the control signal to the indicator to indicate that the input/output cable is not connected to the host when a command [col. 6, lines 27-38] is not received from the host for a predetermined period of time ['certain period of time' in col. 9, lines 18-28; col. 7, lines 49-54]; and

a timer that counts a time required for receiving the command from the host [col. 9, lines 18-28; col. 7, lines 49-54].

6. As to claims 4, 7, and 9, Thorland et al teach the controller clears the set flag when the command is received from the host for the predetermined period of time [col. 7, lines 33-39].

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7. As to claims 5 and 8, Thorland et al teach the controller clears the set flag after the indicator indicates that the input/output cable is not connected to the host [col. 7, lines 33-39; col. 8, lines 49-54; col. 10, lines 39-42].

8. As to claim 6, Thorland et al teach a method of indicating a connection state of an input/output cable [connection cable 201] via which an AT Attachment Packet Interface (ATAPI) drive [col. 1, lines 23-26] communicates with a host [host computer 100 in fig. 1], the method comprising:

when power is applied to the AT Attachment Packet Interface (ATAPI) drive, setting a flag that checks [col. 7, lines 23-32] the connection state of the input/output cable;

if a command [col. 6, lines 27-38] is not received from the host for a predetermined period of time [col. 9, lines 18-28] after the flag is set, commanding a timer to increase a time counter; and

if the increased time exceeds a reference time ['certain period of time' in col. 9, lines 18-28], indicating [col. 9, lines 18-28] that the input/output cable is not connected to the host.

- 9. As to claim 10, Thorland et al teach if the command is received from the host, signaling that the input/output cable is connected [col. 8, lines 49-54].
- 10. As to claim 11, Thorland et al teach an apparatus for indicating whether an input/output cable [connection cable 201] is connected between an ATAPI device [col.
- 1, lines 23-26] and a host device [host computer 100 in fig. 1], comprising:

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a controller, coupled to the ATAPI device and an input/output interface to check [col. 7, lines 23-32] for a command signal [col. 6, lines 27-38] from the host device and selectively outputting [col. 7, lines 33-39] a control signal depending on whether a command signal from the host device was detected;

an indicator [col. 9, lines 18-28] responsive to said control signal to indicate to a user whether the input/output cable is connected between the host and the ATAPI device:

a timer circuit configured to increment a time counter ['certain period of time' in col. 9, lines 18-28] each time the controller checks for the command signal and does not detect a command signal.

- 11. As to claim 12, Thorland et al teach the controller compares the timer counter to a predetermined time period and if the time counter is greater than the predetermined time period, the controller outputs a control signal to the indicator and stops checking for the command signal [col. 9, lines 18-28; col. 7, lines 49-54; col. 10, lines 39-42; fig. 5].
- 12. As to claim 13, Thorland et al teach the indicator illuminates at least one light to visually indicate the status of the input/output cable [col. 9, lines 18-28].
- 13. As to claim 14, Thorland et al teach the indicator turns on an LED to indicate that the input/output cable is not connected and turns off the LED to indicate that the input/output cable is connected [col. 9, lines 18-28].
- 14. As to claim 15, Thorland et al teach a method of indicating whether an input/output cable is connected between an ATAPI device and a host device, the method comprising:

setting [col. 7, lines 23-32] a flag in a controller in the ATAPI device;

checking [col. 7, lines 23-32] for a command signal [col. 6, lines 27-38] from the host device if the flag is set;

incrementing [until a 'certain period of time' in col. 9, lines 18-28] a counter if no command signal was detected;

comparing the counter to a predetermined limit [col. 9, lines 18-28] and if the counter is greater than the predetermined limit sending a control signal to an indicator for indicating that the input/output cable is not connected and clearing the flag [col. 7, lines 33-39; col. 8, lines 49-54; col. 10, lines 39-42]; and

if the command signal was detected sending a control signal to an indicator that the input/output cable is connected and clearing the flag [col. 7, lines 33-39; col. 8, lines 49-54; col. 10, lines 39-42].

15. As to claim 16, Thorland et al teach an apparatus [software and/or hardware in col. 11, lines 49-53] for indicating whether an input/output cable [connection cable 201] is connected between an ATAPI device [col. 1, lines 23-26] and a host device [host computer 100 in fig. 1], comprising:

a controller coupled to the ATAPI device and an input/output interface to check [col. 7, lines 23-32] for a signal [col. 6, lines 27-38] from the host device and selectively outputting the signal if the signal is detected;

an indicator [fig. 5; col. 9, lines 18-28] responsive to the signal indicating to a user whether the input/output cable is connected between the host device and the ATAPI device;

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a timer circuit configured to increment a time counter each time the controller checks for the signal and does not detect a signal,

wherein the controller compared the timer counter to a predetermined time period ['certain period of time' in col. 9, lines 18-28] and if the time counter is greater than the predetermined time period, the controller outputs a control signal to the indicator and stops checking for the signal.

Claim Rejections - 35 USC § 103

- 16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 17. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thorland et al., US patent No. 6,457,071.

As to claim 3, Thorland et al do not disclose the indicator is a light emitting diode that turns on in response to the control signal output from the controller, when the host is connected to the AT Attachment Packet Interface (ATAPI) drive via the input/output cable, and turns off when the host is not connected to the AT Attachment Packet Interface (ATAPI) drive via the input/output cable. Rather, Thorland et al oppositely disclose the indicator is a light emitting diode that turns off in response to the control signal output from the controller, when the host is connected to the AT Attachment Packet Interface (ATAPI) drive via the input/output cable, and turns on when the host is not connected to the AT Attachment Packet Interface (ATAPI) drive via the input/output

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cable [col. 9, lines 18-28]; however, it would be obvious to one of ordinary skill in the art

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as a design choice.

Conclusion

18. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ilwoo Park whose telephone number is (571) 272-4155.

The examiner can normally be reached on Monday through Friday from 9:00 AM to 5:30

PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kim Huynh can be reached on (571) 272-4147. The fax phone number for

the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

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Center (EBC) at 866-217-9197 (toll-free).

ILWOO PARK PRIMARY EXAMINIFE

Ilwoo Park

June 15, 2006